

GENERAL

The Cumberland Landfill will be located about 1.5 miles south of U.S. Route 60 and approximately six miles east of the Cumberland County Courthouse (see map at right.) The project area will be about 1,200 acres with only approximately 250 acres used as disposal area. It will be safely accessible on a new road to be developed as part of the project and that will connect directly with Route 60. The discussion related to development of a new landfill was undertaken as the county sought to cultivate a new source of revenue that could provide the funds necessary for improving schools and other vital parts of infrastructure. Recognizing that landfills are highly regulated, the county's leadership has been committed from the beginning to maximizing its control over the proposed facility and the benefits it yields while minimizing impacts on the broader community.

WHY A LANDFILL?

Cumberland County faces a dilemma. It must balance its desire to maintain the area's rural character with an increasing demand for better infrastructure. Improving the infrastructure will naturally require the county to grow its revenue stream. To meet those needs, the county must find additional financial resources.

The Board of Supervisors evaluated many options ranging from stimulation of business growth to the development of a prison. The board also weighed the possibility of stimulating residential growth by breaking up large tracts of land throughout the county into much smaller parcels so that those properties could be sold with an eye toward expanding the tax base. The problem with this approach is two-fold. First, residential growth produces more demand for services than it provides in tax income. Second, this demand requires increased tax levies, which will result in many family farms being sold – thus defeating the intent to maintain the rural character of the county.

Another, more viable way is the siting and operation of Cumberland Landfill, which would provide more than \$100 million in fees to the county over the next several decades. The landfill would fuel a powerful economic engine and would preclude any need to parcel out smaller properties. Compared against the amount of real estate needed for its operation, the landfill project offers exponentially better financial benefits.

WHO IS CCDC?

Cumberland County Development Co., LLC (CCDC) is a wholly-owned subsidiary of Allied Waste North America, Inc. Allied is a publicly traded company and is the nation's second largest non-hazardous solid waste management company with annual revenues of \$5.7 billion and total assets of about \$14 billion. Aside from its large presence throughout Virginia, Allied provides collection, recycling and disposal services to residential, commercial and industrial customers across the United States. It operates a network of 304 collection companies, 162 transfer stations, 169 landfills and 57 recycling facilities in 37 states and Puerto Rico.

HOW WAS THE LOCATION SELECTED?

The primary goal in selecting a facility location is maximization of environmental protection and minimization of impact to the broader community. The key elements include: *Site Suitability, Site Accessibility and Site Isolation.*



The initial site suitability evaluation indicates this site is a very favorable location. Suitability considers various criteria such as cultural and archeological resources, water supplies, geology, hydrogeology, floodplains, setbacks and buffer requirements.

Proximity to U.S. Route 60 is very important to maintaining a safely accessible facility. The proposed facility will be located at the end of a new road, which directly accesses Route 60.

Even though the facility is accessible it is also isolated. The landfill will reside about 1.5 miles south of Route 60 in a densely wooded pine forest and will not be visible from most points of view.

HOW WILL THIS FACILITY AFFECT TRAFFIC?

An initial traffic study has been completed and indicates that the existing road infrastructure is adequate to support the additional traffic. It is also anticipated that the Virginia Department of Transportation (VDOT) may require some roadway modifications in the vicinity of the new intersection to maintain traffic flow.

Furthermore, the Host Community Agreement requires Allied to use designated truck routes (primarily U.S. Route 60), develop a truck staging area, which will allow the facility to manage traffic flow to the site effectively and submit an operation plan which addresses traffic control.

HOW WILL PROPERTY VALUES BE AFFECTED?

According to Bruce J. Parker, president of the National Solid Wastes Management Association, "The effects of landfills and other solid waste facilities on nearby residential properties cannot be easily generalized; however, academic research and other evidence indicate that residential property values are not necessarily adversely affected by close proximity to such facilities. In some circumstances, the impact can be positive."

Furthermore, in addition to the buffer requirements and the standards established in the Host Agreement, Allied is required to offer a Property Value Protection Program for those residents living with one-half mile of the disposal boundary.

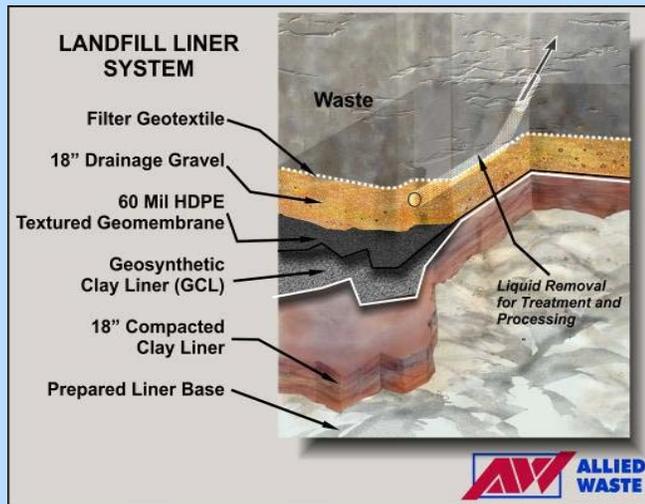
ENVIRONMENTAL PROTECTION

Protecting the environment is our highest priority. Allied Waste will work closely with the Virginia Department of Environmental Quality (VDEQ) to assure that the facility meets or exceeds all state and federal regulations.

To understand how a modern, lined landfill protects the environment, one must consider the many protective design components, monitoring programs and operating considerations involved in a modern landfill – and how they are interrelated and work in complement to one another. In the case of a modern, lined landfill it truly is an example of where the whole is greater than the sum of its parts.

HOW IS GROUNDWATER PROTECTED?

To prevent contamination of groundwater, solid waste will be placed above an impermeable composite liner system (see graphic below.) Additionally, the facility's geology and hydrogeology will be extensively evaluated to confirm suitability.



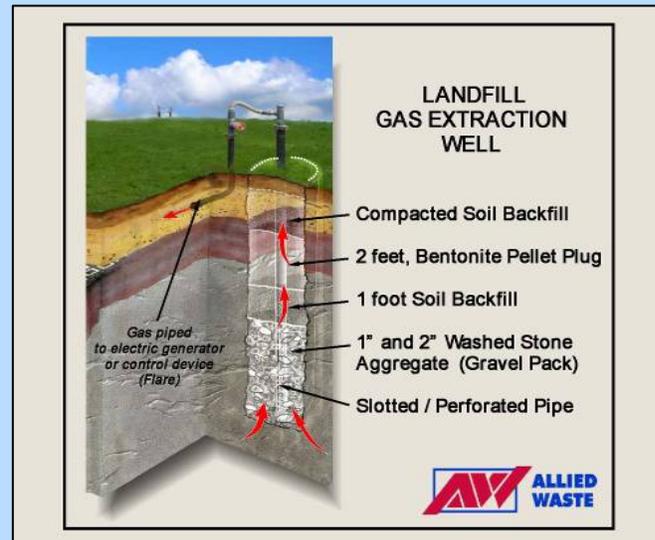
This high level of investigative effort, in concert with proven engineering design and construction practices, guarantees that the facility can be constructed and operated in a safe, environmentally friendly manner. Landfills are scientifically engineered with multiple layers of protection to ensure safety.

HOW IS AIR QUALITY MAINTAINED?

You may be surprised to learn that landfills are the source of a valuable commodity – energy. Once solid waste is disposed in the landfill, it naturally decomposes; a process that produces an excellent source of renewable energy known as "landfill gas" (LFG).

The proposed facility in Cumberland County will be designed with an LFG Collection and Control System. This system will ensure that the landfill is under sufficient vacuum to prevent releases of LFG into the air. At the end of each day, the facility will be

adequately covered to further reduce the potential for any offsite odors. An effective LFG collection and control system and proper operations will minimize odors (see graphic below.)



To properly understand the positive impact an LFG collection facility can have on Cumberland County, consider that the US Environmental Protection Agency estimates the annual benefits of a typical three-megawatt LFG-to-energy plant as being equivalent to the following: taking 25,000 cars off the road, or planting 35,000 acres of forest, or preventing the use of 280,000 barrels of oil.

HOW WILL THE FACILITY BE MONITORED?

A modern landfill consists of several quality assurance programs, including the mandatory monitoring of groundwater, surface water, air quality and operations.

Operational monitoring is conducted by county officials, various state and local agencies, independent third-party professionals and qualified facility employees. It includes inspection of incoming wastes, construction certification and daily compliance.

The facility will also be required to install and maintain a network of wells that facilitate the accurate monitoring of groundwater quality. These wells are sampled on a regular basis in accordance with stringent procedures specified in the facility's permit, including provisions for quality assurance and control.

Finally, the facility is required to have an extensive surface water management system in place. At Cumberland Landfill, this system will be routinely monitored to ensure compliance with the standards established to protect Maxey Mill Creek.